



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Poonam BHANDARI et al.
Title: IN VIVO ASSAY SYSTEM FOR SCREENING AND
VALIDATION OF DRUGS AND OTHER
SUBSTANCES
Appl. No.: 09/987,482
Filing Date: 11/14/2001
Examiner: Peter Paras, Jr.
Art Unit: 1632

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

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Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date June 9, 2003

By



FOLEY & LARDNER
Customer Number: 22428

Matthew E. Mulkeen
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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: June 9, 2003 (use as many sheets as necessary)				Complete if Known	
				Application Number	09/987,482
				Filing Date	11/14/2001
				First Name of Inventor	Poonam Bhandari
				Group Art Unit	1632
				Examiner Name	Peter Paras, Jr.
				Attorney Docket Number	056859-0134
Sheet	1	of	7		



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS								
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	A1	AHMED, <i>et al.</i> , Regulation of armadillo by a <i>Drosophila</i> APC inhibits neuronal apoptosis during retinal development. <i>Cell</i> 93 , 1171-1182. (1998); Cell Press.	
	A2	BIENZ, APC: the plot thickens. <i>Curr Opin Genet Dev</i> 9 , 595-603. (1999); Elsevier Science Ltd.	
	A3	BLACKMAN, <i>et al.</i> , An extensive 3' cis-regulatory region directs the imaginal disk expression of <i>decapentaplegic</i> , a member of the TGF- β family in <i>Drosophila</i> . <i>Development</i> 111 , 657-666. (1991); The Company of Biologists Limited, Great Britain.	
	A4	BRAND, <i>et al.</i> , Targeted gene expression as a means of altering cell fates and generating dominant phenotypes. <i>Development</i> 118 , 401-415. (1993); The Company of Biologists Limited, Great Britain.	
	A5	BROOK, <i>et al.</i> , Antagonistic interactions between <i>wingless</i> and <i>decapentaplegic</i> responsible for dorsal-ventral pattern in the <i>Drosophila</i> leg. <i>Science</i> 273 , 1373-1377. (1996).	
	A6	CAMPBELL, <i>et al.</i> , The roles of the homeobox genes <i>aristaless</i> and <i>Distal-less</i> in patterning the legs and wings of <i>Drosophila</i> . <i>Development</i> 125 , 4483-4493. (1998); The Company of Biologists Limited, Great Britain.	
	A7	COOLEY, <i>et al.</i> , Insertional mutagenesis of the <i>Drosophila</i> genome with single P elements. <i>Science</i> 239 , 1121-1128. (1988).	

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	A8	COX, <i>et al.</i> , Armadillo is required for adherens junction assembly, cell polarity, and morphogenesis during <i>Drosophila</i> embryogenesis. <i>J Cell Biol.</i> 134 ,133-48. (1996); The Rockefeller University Press.		
	A9	DIAZ-BENJUMEA, <i>et al.</i> , Cell interaction between compartments establishes the proximal-distal axis of <i>Drosophila</i> legs. <i>Nature</i> 372 , 175-179. (1994).		
	A10	FORTINI, <i>et al.</i> , Modeling human neurodegenerative diseases in <i>Drosophila</i> : on a wing and a prayer. <i>Trends Genet.</i> 16 , 161-167. (2000); Elsevier Science Ltd.		
	A11	FRASCH, <i>et al.</i> , Induction of visceral and cardiac mesoderm by ectodermal Dpp in the early <i>Drosophila</i> embryo. <i>Nature</i> 374 , 464-467. (1995).		
	A12	FRIEDL, <i>et al.</i> , Attenuated familial adenomatous polyposis due to a mutation in the 3 part of the APC gene. <i>Hum Genet</i> 97 , 579-584. (1996); Springer-Verlag.		
	A13	GHYSEN, <i>et al.</i> , Neural enhancer-like elements as specific cell markers in <i>Drosophila</i> . <i>Development</i> 105 , 35-52. (1989); The Company of Biologists Limited, Great Britain.		
	A14	GORFINKIEL, <i>et al.</i> , The homeobox gene Distal-less induces ventral appendage development in <i>Drosophila</i> . <i>Genes Dev</i> 11 , 2259-2271. (1997); Cold Spring Harbor Laboratory Press.		
	A15	GRODEN, <i>et al.</i> , Identification and characterization of the familial adenomatous polyposis coli gene. <i>Cell</i> 66 , 589-600. (1991); Cell Press.		

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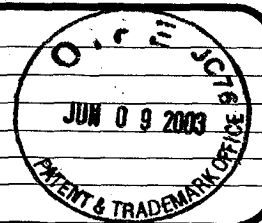
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	A16	GUMBINER, <i>et al.</i> , Signal transduction of β -catenin. <i>Curr Opin Cell Biol.</i> 7, 634-40. (1995); Current Biology Ltd.	
	A17	HAYASHI, <i>et al.</i> , A <i>Drosophila</i> homolog of the tumor suppressor gene adenomatous polyposis coli down-regulates β -catenin but its zygotic expression is not essential for the regulation of Armadillo. <i>Proc Natl Acad Sci USA</i> 94, 242-247. (1997); The National Academy of Sciences of the USA.	
	A18	HAZELETT, <i>et al.</i> <i>decapentaplegic</i> and <i>wingless</i> are regulated by <i>eyes absent</i> and <i>eyegone</i> and interact to direct the pattern of retinal differentiation in the eye disc. <i>Development</i> 125, 785-789. (1998); The Company of Biologists Limited, Great Britain.	
	A19	HE T-C, <i>et al.</i> PPAR α is an APC-regulated target of nonsteroid anti-inflammatory drugs. <i>Cell</i> 99, 335-345. (1999); Cell Press.	
	A20	HELD, <i>et al.</i> Interaction of <i>decapentaplegic</i> , <i>wingless</i> , and <i>Distal-less</i> in the <i>Drosophila</i> leg. <i>Roux's Arch Dev Biol</i> 203, 310-319. (1994); Springer-Verlag.	
	A21	ILYAS, <i>et al.</i> , W.F. (2000) β -catenin mutations in cell lines established from human colorectal cancers. <i>Proc Natl Acad Sci USA</i> 97, 10330-10334; The National Academy of Sciences.	
	A22	JOSLYN, <i>et al.</i> , Identification of deletion mutations and three new genes at the familial polyposis locus. <i>Cell</i> 66, 601-13. (1991); Cell Press.	
	A23	KINZLER, <i>et al.</i> , Identification of FAP locus genes from chromosome 5q21. <i>Science</i> 253, 661-665. (1991).	

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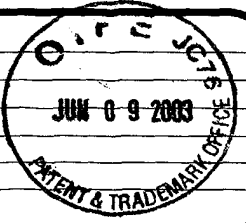
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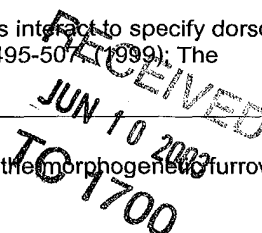
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(use as many sheets as necessary)		First Named Inventor	Poonam Bhandari
		Group Art Unit	1632
		Examiner Name	Peter Paras, Jr.
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	A24	KOPP, <i>et al.</i> , Wingless, decapentaplegic and EGF receptor signaling pathways interact to specify dorso-ventral pattern in the adult abdomen of <i>Drosophila</i> . <i>Development</i> 1999 126 , 3495-507. (1999); The Company of Biologists Limited, Great Britain.	
	A25	MA, <i>et al.</i> , The segment polarity gene hedgehog is required for progression of the morphogenetic furrow in the developing <i>Drosophila</i> eye. <i>Cell</i> 75 , 927-938. (1993); Cell Press.	
	A26	McCARTNEY, <i>et al.</i> , <i>Drosophila</i> APC2 is a cytoskeletally-associated protein that regulates Wingless signaling in the embryonic epidermis. <i>J Cell Biol</i> 146 , 1303-1318. (1999); The Rockefeller University Press.	
	A27	McCARTNEY, <i>et al.</i> , Teaching tumour suppressors new tricks. <i>Nat Cell Biol</i> 2 , E58-E60. (2000).	
	A28	MIYOSHI, <i>et al.</i> , Somatic mutations of the APC gene in colorectal tumors: mutation cluster region in the APC gene. <i>Hum Mol Genet</i> 1 , 229-233. (1992); Oxford University Press.	
	A29	MORIMURA, <i>et al.</i> , decapentaplegic overexpression affects <i>Drosophila</i> wing and leg imaginal disc development and <i>wingless</i> expression. <i>Dev. Biol.</i> 177 , 136-151. (1996); Academic Press, Inc.	
	A30	KANG, <i>et al.</i> , Presenilin 1 Facilitates the Constitutive Turnover of β -Catenin: Differential Activity of Alzheimer's Disease-Linked PS1 Mutants in the β -Catenin-Signaling Pathway. <i>J Neurosci.</i> 19 , 4229-4237. (1999); Society for Neuroscience.	
	A31	NELLEN, <i>et al.</i> , Direct and long-range action of a DPP morphogen gradient. <i>Cell</i> 78 , 225-237. (1994); Cell Press.	



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	A32	NEUFELD, <i>et al.</i> , Nuclear and cytoplasmic localizations of the adenomatous polyposis coli protein. <i>Proc Natl Acad Sci USA</i> 94 , 3034-3039. (1997); The National Academy of Sciences of the USA.	
	A33	PAI, <i>et al.</i> , Negative regulation of Armadillo, a Wingless effector in <i>Drosophila</i> . <i>Development</i> 124 , 2255-2266. (1997); The Company of Biologists Limited, Great Britain.	
	A34	PAPKOFF, <i>et al.</i> , Wnt-1 regulates free pools of β -catenins and stabilizes APC- β -catenin complexes. <i>Mol. Cell. Biol.</i> 16 , 2128-2134. (1996); American Society for Microbiology.	
	A35	PATEL, <i>et al.</i> , Expression of engrailed proteins in arthropods, annelids, and chordates. <i>Cell</i> 58 , 955-968. (1989); Cell Press.	
	A36	POLAKIS, <i>et al.</i> , The adenomatous polyposis coli (APC) tumor suppressor. <i>Biochim Biophys Acta</i> 1332 , F127-F147. (1997); Elsevier Science B.V.	
	A37	POLAKIS, <i>et al.</i> , The oncogenic activation of β -catenin. <i>Curr Opin Genet Dev</i> 9 , 15-21. (1999); Elsevier Science Ltd.	
	A38	RIGGLEMAN, <i>et al.</i> , Spatial expression of the <i>Drosophila</i> segment polarity gene <i>armadillo</i> is posttranscriptionally regulated by Wingless. <i>Cell</i> 63 , 549-560. (1990); Cell Press.	
	A39	RUBINFELD, <i>et al.</i> , Stabilization of β -catenin by genetic defects in melanoma cell lines. <i>Science</i> 272 , 1023-1026. (1996).	

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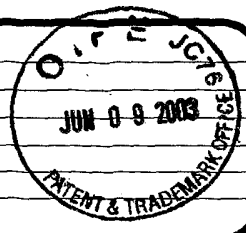
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	A40	SANSON, <i>et al.</i> , Uncoupling cadherin-based adhesion from Wingless signalling in <i>Drosophila</i> . <i>Nature</i> 383 , 627-630. (1996).	
	A41	SCOTT, <i>et al.</i> , Familial infiltrative fibromatosis (desmoid tumours) (M1M135290) caused by recurrent 3 APC gene mutation. <i>Hum Mol Genet.</i> 5 , 1921-1924. (1996); Oxford University Press.	
	A42	SHASHIDHARA, <i>et al.</i> , Negative regulation of dorsoventral signaling by the homeotic gene <i>Ultrabithorax</i> during haltere development in <i>Drosophila</i> . <i>Dev. Biol.</i> 212 , 419-502. (1999); Academic Press.	
	A43	SHIH, <i>et al.</i> , The β -catenin binding domain of adenomatous polyposis coli is sufficient for tumor suppression. <i>Cancer Res</i> 60 , 1671-1676. (2000).	
	A44	SHIRRAS, <i>et al.</i> Cell fates in the adult abdomen of <i>Drosophila</i> are determined by wingless during pupal development. <i>Dev Biol.</i> 175 , 24-36. (1996); Academic Press.	
	A45	SIMMONDS, <i>et al.</i> , Distinguishable functions for <i>engrailed</i> and <i>invected</i> in anterior-posterior patterning in the <i>Drosophila</i> wing. <i>Nature</i> 376 , 424-427. (1995).	
	A46	SMITS, <i>et al.</i> , <i>Apc1638T</i> : a mouse model delineating critical domains of the adenomatous polyposis coli protein involved in tumorigenesis and development. <i>Genes Dev</i> 13 , 1309-1321. (1999); Cold Spring Harbor Laboratory Press.	
	A47	STEITZ, <i>et al.</i> , Overexpression of zeste white 3 blocks Wingless signaling in the <i>Drosophila</i> embryonic midgut. <i>Dev Biol</i> 197 , 218-233. (1998); Academic Press.	

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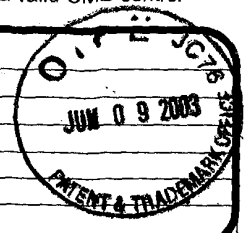
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		Examiner Name	Peter Paras, Jr.
Date Submitted: June 9, 2003		Attorney Docket Number	056859-0134
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	A49	TREISMAN, <i>et al.</i> , <i>wingless</i> inhibits morphogenetic furrow movement in the <i>Drosophila</i> eye disc. <i>Development</i> 121 , 3519-3527. (1995); The Company of Biologists Limited, Great Britain.	
	A50	VACHON, <i>et al.</i> , Homeotic genes of the bithorax complex repress limb development in the abdomen of the <i>Drosophila</i> embryo through the target gene <i>Distal-less</i> . <i>Cell</i> 71 , 437-450. (1992); Cell Press.	
	A51	WILLERT, <i>et al.</i> , Wnt-induced dephosphorylation of Axin releases β -catenin from the axin complex. <i>Genes Dev</i> 13 , 1768-1773. (1999); Cold Spring Harbor Laboratory Press.	
	A52	YAMAGUCHI, <i>et al.</i> , Ectopic expression of human p53 inhibits entry into S phase and induces apoptosis in the <i>Drosophila</i> eye imaginal disc. <i>Oncogene</i> 18 , 6767-6775. (1999); Stockton Press.	
	A53	YU, <i>et al.</i> , A new <i>Drosophila</i> APC homologue associated with adhesive zones of epithelial cells. <i>Nat Cell Biol</i> 1 , 144-151. (1999).	
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